

# ABSTRACT

A method and a device for controlling at least one operating parameter of an electrolytic bath may provide for the production of improved quality platings, in which the use of chemicals may be reduced. The concentration of at least one bath component is determined, and the concentration values are processed in a control device in order to obtain correcting variables of a control element, in which the operating parameter is changed in line with setpoint values. The concentration is determined by extracting a sample from the bath. The sample is excited by electromagnetic radiation, and the spectrum of the light emitted by the sample is analyzed. The device includes an installation for transferring at least one sample of a bath to an array for determining the concentration. The array for determining the concentration of at least one bath component includes a laser directed at the sample, and the array for determining the concentration includes an array for spectral analysis of the light emitted by the sample.